

Ali Satvaty



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EDUCATION	Ph.D. in Privacy & Safety of LMs <i>Faculty of Science and Engineering – University of Groningen</i> • Supervisors: Prof. Dr. Fatih Turkmen, Prof. Dr. Suzan Verberne	Sept. 2023 - Present Groningen - the Netherlands
	M.Sc. in Artificial Intelligence – Computer Engineering <i>Faculty of Computer Engineering – Sharif University of Technology</i> • GPA: 4/4 (18.00/20) • Supervisor: Prof. Dr. Hossein Sameti	Sept. 2020 - June 2023 Tehran - Iran
	B.Sc. in Control and Robotics – Electrical Engineering <i>Faculty of Electrical and Computer Engineering – University of Tehran</i> • GPA: 3.7/4 (17.02/20) • Supervisor: Prof. Dr. Amir Abbas Shayegani	Sept. 2014 - June 2019 Tehran - Iran
	Diploma in Mathematics and Physics <i>NODET (National Organization for the Development of Exceptional Talents)</i>	Sept. 2010 - June 2014

PUBLICATIONS	<i>EL-MIA: Quantifying Membership Inference Risks of Sensitive Entities in LLMs</i> A. Satvaty, S. Verberne, F. Turkmen <i>Memorization is Language-Sensitive: Analyzing Memorization and Inference Risks of LLMs in a Multilingual Setting</i> A. Satvaty, A. Visman, D. Seidel, S. Verberne, F. Turkmen <i>Undesirable Memorization in Large Language Models: A Survey</i> A. Satvaty, S. Verberne, F. Turkmen <i>Docalog: Multi-document Dialogue System using Transformer-based Span Retrieval</i> S.H. Alavian, A. Satvaty, S. Sabouri, E. Asgari, and H. Sameti <i>A Change of Heart: Improving Speech Emotion Recognition through Speech-to-Text Modality Conversion</i> Z.S. Taghavi, A. Satvaty, H. Sameti	Nov 2025, Under review Jun 2025, Accepted at L2M2 Jan 2025, Under review May 2022, ACL ICLR 2023
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RESEARCH EXPERIENCE	PhD Candidate, Groningen - the Netherlands I am currently in the third year of my Ph.D. program at the Bernoulli Institute, where my research focuses on the privacy and safety aspects of large language models (LLMs). My doctoral work is conducted as part of the LESSEN project ¹ , which aims to develop a low-resource conversational assistant. During my first year, I conducted an in-depth survey of the literature on privacy in LLMs. Given that many privacy risks originate from model memorization, I chose to explore this area more deeply. This led to the publication of a comprehensive survey on memorization in LLMs. Building	<i>Bernoulli Institute for Math, CS and AI</i> Sept 2023 - Present
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¹<https://lessen-project.nl>

on that foundation, I carried out a comparative analysis of memorization patterns in high-resource versus low-resource languages to better understand disparities in vulnerability.

I am excited to contribute to this important research initiative and remain committed to advancing our understanding of the privacy and security challenges in language models.

Master's Thesis,

Tehran - Iran

Under the supervision of Prof. Hossein Sameti

2020 – 2022

My master's thesis focused on improving the performance of conversational question answering models. After studying and implementing different ideas within the field, I participated in ACL's MultiDoc2Dial workshop, where our model stood fifth. Afterwards, in my thesis, I proposed a method to detect irrelevant turns in the history of CQA, resulting in an improvement of the baseline.

**WORK
EXPERIENCE**

AI Developer, HARA AI

Tehran - Iran

Sept 2022 - March 2023

In my previous role as an AI developer, my responsibilities involved exploring and analyzing state-of-the-art (SOTA) models for specific tasks, as well as implementing and enhancing models. During that time, I mainly focused on machine vision tasks, particularly OCR and anomaly detection.

Backend Developer, Idearun Co.

Tehran - Iran

Jan 2019 - Jan 2020

Freelance Python Developer, Home

Tehran - Iran

May 2017 - Jan 2020

**TEACHING
ASSISTANTSHIP**

Data Privacy

by Prof. Dr. F. Turkmen (Fall 2025 & Fall 2024)

University of Groningen

Artificial Intelligence

by Dr. M.Hossein Rohban (Spring 2023)

Sharif University of Technology

Speech Processing

by Prof. Dr. Hossein Sameti (Spring 2023)

Sharif University of Technology

Information Retrieval

by Prof. Dr. Hamid Beigy (Fall 2022)

Sharif University of Technology

Deep Learning

by Prof. Dr. Hamid Beigy (Fall 2022)

Sharif University of Technology

Automatic Speech Recognition

by Prof. Dr. Hossein Sameti (Spring 2022)

Sharif University of Technology

Security and Privacy in Machine Learning

by Dr. M.Hossein Rohban (Fall 2021)

Sharif University of Technology

Communication Systems I

by Dr. Aliazam Abbasfar (Spring 2016)

University of Tehran

Linear Control Systems Laboratory

by Dr. Tooraj Abbasian (Spring 2016)

University of Tehran

**HONORS &
AWARDS**

Ranked 4th & Winner of the Most Efficient Method

2024

CLAS 2024 : The Competition for LLM and Agent Safety (NeurIPS 2024 Competition Track)

Ranked 5th

2022

ACL's MultiDoc2Dial challenge leaderboard

Ranked 4th

2021

<i>Sharif University of Technology's AI Challenge</i>	
Ranked 4th	2020
<i>Nationwide Information Technology graduate university entrance exam, among 30,000</i>	
Ranked 12th	2020
<i>Nationwide Artificial Intelligence graduate university entrance exam, among 35,000</i>	
Ranked 1st	2019
<i>Sharif University of Technology's Bot Cup contest</i>	
Received scholarship	2017 - 2018
<i>From the university of Tehran's faculty of Engineering as an exceptional talent student</i>	
Ranked 192st	2014
<i>Nationwide mathematics university entrance exam among 210,000 participants (top 0.1%)</i>	
NODET	2007
<i>Being accepted in the National Organization for Development of Exceptional Talents</i>	

SKILLS	Operating Systems: Linux and Windows Programming: Python, MATLAB, C/C++/C#, Java, SQL, Html/CSS Libraries: PyTorch, Tensorflow, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn Software: Git, Docker, Mysql, MongoDB, Arduino, AutoCAD, WordPress, Label-studio. Typesetting: L ^A T _E X, Microsoft Office Languages: Persian (Native), English (Fluent), Arabic (Basic)
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HOBBIES	Boardgames, Podcasts/Reading, Gym, Friends
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REFERENCES	Fatih Turkmen f.turkmen@rug.nl <i>Associate Professor, Faculty of Science and Engineering, University of Groeningen</i> Suzan Verberne beigy@sharif.edu <i>Professor, Leiden Inst of Advanced Computer Science , Leiden University</i>
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